Scope and Sequence 2024 - 2025
Please Note: All standards in the state course description are designed to be learned by the end of the course. This guide represents a recommended timeline and sequence to be used voluntarily by teachers for planning purposes. Specific question regarding when content will be addressed in a specific course are best answered by the individual teacher.
Course Resources
Publisher Resource: Math Nation (Clever – use your active directory; does not support Internet Explorer) **Supplemental Resources:** Khan Academy (6th Grade; does not support Internet Explorer) Illustrative Mathematics (6th Grade; does not support Internet Explorer)
In Grade 6, instructional time will emphasize five areas:
(1) Performing all four operations with integers, positive decimals and positive fractions with procedural fluency; (2) Exploring and applying concepts of ratios, rates and percent to solve problems; (3) Creating, interpreting, and using expressions and equations (4) Extending geometric reasoning to plotting points on the coordinate plane, area, and volume of geometric figures and (5) Extending understanding of statistical thinking.

Quarter 1 (August 12 – October 11)

Unit 1: Number Sense and Operations with Positive Numbers
Students will explore greatest common factor, least common multiple, multiplication and division of multi-digit numbers with decimals to the thousandths, and multiplication and division to compute products and quotients of positive fractions.

Unit 2: Fractions, Percentages, and Decimals
Students will create equivalent forms of fractions, decimals, and percentages to solve multi-step real-world problems involving any of the four operations with positive multi-digit decimals or positive fractions including mixed numbers.

Unit 3: Understanding Rational Numbers
Students will focus on the placement of rational numbers on the number line and employ the equivalent forms of numbers written as fractions, decimals, and percentages.

Unit 4: The Coordinate Plane
Students will plot rational number coordinate pairs on the coordinate plane in all four quadrants and will find distances along horizontal or vertical lines without the formal understanding of subtraction of integers, but with the formal understanding of absolute value.

Quarter 2 (October 15 – December 20)

Unit 7: Area
Students will apply operations of positive decimals and fractions to solve problems involving area.

Unit 8: Surface Area and Volume
Students will focus on volume and surface area of rectangular prisms and pyramids.

Unit 6: Operations with Integers
Students will focus on exponents, prime factorization, and learn operations of integers with the support of manipulatives.

Unit 11: Operations with Rational Numbers
Students will extend their learning of operations with integers from Unit 6 to include operations with rational numbers.

Quarter 3 (January 6 – March 13)

Unit 13: Algebraic Expressions
Students will apply operations with integers in evaluating algebraic expressions and adding and subtracting expressions.

Unit 14: Equations and Inequalities
Students will solve one-step equations and one-step inequalities.

Unit 5: Ratios and Rates
Students will continue to explore and apply concepts of ratios, rates and percent to solve problems.

Quarter 4 (March 24 – May 30)

Unit 9: Data Sets
Students will calculate measures of center and variation. Students will also represent and interpret one-variable data distributions in histograms, line plots, and box plots.

Unit 10: Representing Data and Distributions
Students will be able to match data displays, identify outliers, and justify measures of center and variations.

Unit 12: Solving Multi-Step Problems with Proportional Relationships
Students will apply their understanding of proportional relationships to solve multi-step real-world percent problems and utilize their understanding of equivalent forms of rational numbers.

Unit 15: Probability
Students will understand equivalent forms of rational numbers by applying these equivalent forms to probability of events.